

Figure 1.

1	M	D	P	T	T	P	A	W	G	T	E	S	T	T	V	15	
1	ATG	GAT	CCA	ACC	ACC	CCG	GCC	TGG	GGA	ACA	GAA	AGT	ACA	ACA	ACA	GTG	45
16	N	G	N	D	Q	A	L	L	L	L	C	G	K	E	T	30	
46	AAT	GGA	AAT	GAC	CAA	GCC	CTT	CTT	CTG	CTT	TGT	GGC	AAG	GAG	ACC	90	
31	L	I	P	V	F	L	I	L	F	I	A	L	V	G	L	45	
91	CTG	ATC	CCG	GTC	TTC	CTG	ATC	CTT	TTC	ATT	GCC	CTG	GTC	GGG	CTG	135	
46	V	G	N	G	F	V	L	W	L	L	G	F	R	M	R	60	
136	GTA	GGA	AAC	GGG	TTT	GTG	CTC	TGG	CTC	CTG	GGC	TTC	CGC	ATG	CGC	180	
61	R	N	A	F	S	V	Y	V	L	S	L	A	G	A	D	75	
181	AGG	AAC	GCC	TTC	TCT	GTC	TAC	GTC	CTC	AGC	CTG	GCC	GGG	GCC	GAC	225	
76	F	L	F	L	C	F	Q	I	I	N	C	L	V	Y	L	90	
226	TTC	CTC	TTC	CTC	TGC	TTC	CAG	ATT	ATA	AAT	TGC	CTG	GTG	TAC	CTC	270	
91	S	N	F	F	C	S	I	S	I	N	F	P	S	F	F	105	
271	AGT	AAC	TTC	TTC	TGT	TCC	ATC	TCC	ATC	AAT	TTC	CCT	AGC	TTC	TTC	315	
106	T	T	V	M	T	C	A	Y	L	A	G	L	S	M	L	120	
316	ACC	ACT	GTG	ATG	ACC	TGT	GCC	TAC	CTT	GCA	GGC	CTG	AGC	ATG	CTG	360	
121	S	T	V	S	T	E	R	C	L	S	V	L	W	P	I	135	
361	AGC	ACC	GTC	AGC	ACC	GAG	CGC	TGC	CTG	TCC	GTC	CTG	TGG	CCC	ATC	405	
136	W	Y	R	C	R	R	P	R	H	L	S	A	V	V	C	150	
406	TGG	TAT	CGC	TGC	CGC	CCC	AGA	CAC	CTG	TCA	GCG	GTC	GTG	TGT	TGT	450	
151	V	L	L	W	A	L	S	L	L	L	S	I	L	E	G	165	
451	GTC	CTG	CTC	TGG	GCC	CTG	TCC	CTA	CTG	CTG	AGC	ATC	TTG	GAA	GGG	495	
166	K	F	C	G	F	L	F	S	D	G	D	S	G	W	C	180	
496	AAG	TTC	TGT	GGC	TTC	TTA	TTT	AGT	GAT	GGT	GAC	TCT	GGT	TGG	TGT	540	
181	Q	T	F	D	F	I	T	A	A	W	L	I	F	L	F	195	
541	CAG	ACA	TTT	GAT	TTC	ATC	ACT	GCA	GCG	TGG	CTG	ATT	TTT	TTA	TTC	585	
196	M	V	L	C	G	S	S	L	A	L	L	V	R	I	L	210	
586	ATG	GTT	CTC	TGT	GGG	TCC	AGT	CTG	GCC	CTG	CTG	GTC	AGG	ATC	CTC	630	
211	C	G	S	R	G	L	P	L	T	R	L	Y	L	T	I	225	
631	TGT	GGC	TCC	AGG	GGT	CTG	CCA	CTG	ACC	AGG	CTG	TAC	CTG	ACC	ATC	675	
226	L	L	T	V	L	V	F	L	L	C	G	L	P	F	G	240	
676	CTG	CTC	ACA	GTG	CTG	GTG	TTC	CTC	CTC	TGC	GGC	CTG	CCC	TTT	GGC	720	
241	I	Q	W	F	L	I	L	W	I	W	K	D	S	D	V	255	
721	ATT	CAG	TGG	TTC	CTA	ATA	TTA	TGG	ATC	TGG	AAG	GAT	TCT	GAT	GTC	765	
256	L	F	C	H	I	H	P	V	S	V	V	L	S	S	L	270	
766	TTA	TTT	TGT	CAT	ATT	CAT	CCA	GTT	TCA	GTT	GTC	CTG	TCA	TCT	CTT	810	

Figure 1 (cont.)

271	N	S	S	A	N	P	I	I	Y	F	F	V	G	S	F	285
811	AAC	AGC	AGT	GCC	AAC	CCC	ATC	ATT	TAC	TTC	TTC	GTG	GGC	TCT	TTT	855
286	R	K	Q	W	R	L	Q	Q	P	I	L	K	L	A	L	300
856	AGG	AAG	CAG	TGG	CGG	CTG	CAG	CAG	CCG	ATC	CTC	AAG	CTG	GCT	CTC	900
301	Q	R	A	L	Q	D	I	A	E	V	D	H	S	E	G	315
901	CAG	AGG	GCT	CTG	CAG	GAC	ATT	GCT	GAG	GTG	GAT	CAC	AGT	GAA	GGA	945
316	C	F	R	Q	G	T	P	E	M	S	R	S	S	L	V	330
946	TGC	TTC	CGT	CAG	GGC	ACC	CCG	GAG	ATG	TCG	AGA	AGC	AGT	CTG	GTG	990
331	*															331
991	TAG															993

Figure 2.

1	M	E	S	S	P	I	P	Q	S	S	G	N	S	S	T	15
1	ATG	GAG	TCC	TCA	CCC	ATC	CCC	CAG	TCA	TCA	GGG	AAC	TCT	TCC	ACT	45
16	L	G	R	V	P	Q	T	P	G	P	S	T	A	S	G	30
46	TTG	GGG	AGG	GTC	CCT	CAA	ACC	CCA	GGT	CCC	TCT	ACT	GCC	AGT	GGG	90
31	V	P	E	V	G	L	R	D	V	A	S	E	S	V	A	45
91	GTC	CCG	GAG	GTG	GGG	CTA	CGG	GAT	GTT	GCT	TCG	GAA	TCT	GTG	GCC	135
46	L	F	F	M	L	L	D	L	T	A	V	A	G	N	60	
136	CTC	TTC	TTC	ATG	CTC	CTG	CTG	GAC	TTG	ACT	GCT	GTG	GCT	GGC	AAT	180
61	A	A	V	M	A	V	I	A	K	T	P	A	L	R	K	75
181	GCC	GCT	GTG	ATG	GCC	GTG	ATC	GCC	AAG	ACG	CCT	GCC	CTC	CGA	AAA	225
76	F	V	F	V	F	H	L	C	L	V	D	L	L	A	A	90
226	TTT	GTC	TTC	GTC	TTC	CAC	CTC	TGC	CTG	GTG	GAC	CTG	CTG	GCT	GCC	270
91	L	T	L	M	P	L	A	M	L	S	S	S	A	L	F	105
271	CTG	ACC	CTC	ATG	CCC	CTG	GCC	ATG	CTC	TCC	AGC	TCT	GCC	CTC	TTT	315
106	D	H	A	L	F	G	E	V	A	C	R	L	Y	L	F	120
316	GAC	CAC	GCC	CTC	TTT	GGG	GAG	GTG	GCC	TGC	CGC	CTC	TAC	TTG	TTT	360
121	L	S	V	C	F	V	S	L	A	I	L	S	V	S	A	135
361	CTG	AGC	GTG	TGC	TTT	GTC	AGC	CTG	GCC	ATC	CTC	TCG	GTG	TCA	GCC	405
136	I	N	V	E	R	Y	Y	Y	V	V	H	P	M	R	Y	150
406	ATC	AAT	GTG	GAG	CGC	TAC	TAT	TAC	GTA	GTC	CAC	CCC	ATG	CGC	TAC	450
151	E	V	R	M	T	L	G	L	V	A	S	V	L	V	G	165
451	GAG	GTG	CGC	ATG	ACG	CTG	GGG	CTG	GTG	GCC	TCT	GTG	CTG	GTG	GGT	495
166	V	W	V	K	A	L	A	M	A	S	V	P	V	L	G	180
496	GTG	TGG	GTG	AAG	GCC	TTG	GCC	ATG	GCT	TCT	GTG	CCA	GTG	TTG	GGA	540
181	R	V	S	W	E	E	G	A	P	S	V	P	P	G	C	195
541	AGG	GTC	TCC	TGG	GAG	GAA	GGA	GCT	CCC	AGT	GTC	CCC	CCA	GGC	TGT	585
196	S	L	Q	W	S	H	S	A	Y	C	Q	L	F	V	V	210
586	TCA	CTC	CAG	TGG	AGC	CAC	AGT	GCC	TAC	TGC	CAG	CTT	TTT	GTG	GTG	630
211	V	F	A	V	L	Y	F	L	L	P	L	L	L	I	L	225
631	GTC	TTT	GCT	GTC	CTT	TAC	TTT	CTG	TTG	CCC	CTG	CTC	CTC	ATA	CTT	675
226	V	V	Y	C	S	M	F	R	V	A	R	V	A	A	M	240
676	GTG	GTC	TAC	TGC	AGC	ATG	TTC	CGA	GTG	GCC	CGC	GTG	GCT	GCC	ATG	720
241	Q	H	G	P	L	P	T	W	M	E	T	P	R	Q	R	255
721	CAG	CAC	GGG	CCG	CTG	CCC	ACG	TGG	ATG	GAG	ACA	CCC	CGG	CAA	CGC	765
256	S	E	S	L	S	S	R	S	T	M	V	T	S	S	G	270
766	TCC	GAA	TCT	CTC	AGC	AGC	CGC	TCC	ACG	ATG	GTC	ACC	AGC	TCG	GGG	810
271	A	P	Q	T	T	P	H	R	T	F	G	G	G	K	A	285

Figure 2 (cont.).

Figure 3.

1	M	D	P	T	I	S	T	L	D	T	E	L	T	P	I	15
1	ATG	GAT	CCA	ACC	ATC	TCA	ACC	TTG	GAC	ACA	GAA	CTG	ACA	CCA	ATC	45
16	N	G	T	E	E	T	L	C	Y	K	Q	T	L	S	L	30
46	AAC	GGA	ACT	GAG	GAG	ACT	CTT	TGC	TAC	AAG	CAG	ACC	TTG	AGC	CTC	90
31	T	V	L	T	C	I	V	S	L	V	G	L	T	G	N	45
91	ACG	GTG	CTG	ACG	TGC	ATC	GTT	TCC	CTT	GTC	GGG	CTG	ACA	GGA	AAC	135
46	A	V	V	L	W	L	L	G	C	R	M	R	R	N	A	60
136	GCA	GTT	GTG	CTC	TGG	CTC	CTG	GGC	TGC	CGC	ATG	CGC	AGG	AAC	GCC	180
61	F	S	I	Y	I	L	N	L	A	A	A	D	F	L	F	75
181	TTC	TCC	ATC	TAC	ATC	CTC	AAC	TTG	GCC	GCA	GCA	GAC	TTC	CTC	TTC	225
76	L	S	G	R	L	I	Y	S	L	L	S	F	I	S	I	90
226	CTC	AGC	GGC	CGC	CTT	ATA	TAT	TCC	CTG	TTA	AGC	TTC	ATC	AGT	ATC	270
91	P	H	T	I	S	K	I	L	Y	P	V	M	M	F	S	105
271	CCC	CAT	ACC	ATC	TCT	AAA	ATC	CTC	TAT	CCT	GTG	ATG	ATG	TTT	TCC	315
106	Y	F	A	G	L	S	F	L	S	A	V	S	T	E	R	120
316	TAC	TTT	GCA	GGC	CTG	AGC	TTT	CTG	AGT	GCC	GTG	AGC	ACC	GAG	CGC	360
121	C	L	S	V	L	W	P	I	W	Y	R	C	H	R	P	135
361	TGC	CTG	TCC	GTC	CTG	TGG	CCC	ATC	TGG	TAC	CGC	TGC	CAC	CGC	CCC	405
136	T	H	L	S	A	V	V	C	V	L	L	W	A	L	S	150
406	ACA	CAC	CTG	TCA	GCG	GTG	GTG	TGT	GTC	CTG	CTC	TGG	GCC	CTG	TCC	450
151	L	L	R	S	I	L	E	W	M	L	C	G	F	L	F	165
451	CTG	CTG	CGG	AGC	ATC	CTG	GAG	TGG	ATG	TTA	TGT	GGC	TTC	CTG	TTC	495
166	S	G	A	D	S	A	W	C	Q	T	S	D	F	I	T	180
496	AGT	GGT	GCT	GAT	TCT	GCT	TGG	TGT	CAA	ACA	TCA	GAT	TTC	ATC	ACA	540
181	V	A	W	L	I	F	L	C	V	V	L	C	G	S	S	195
541	GTC	GCG	TGG	CTG	ATT	TTT	TTA	TGT	GTG	GTT	CTC	TGT	GGG	TCC	AGC	585
196	L	V	L	L	I	R	I	L	C	G	S	R	K	I	P	210
586	CTG	GTC	CTG	CTG	ATC	AGG	ATT	CTC	TGT	GGA	TCC	CGG	AAG	ATA	CCG	630
211	L	T	R	L	Y	V	T	I	L	L	T	V	L	V	F	225
631	CTG	ACC	AGG	CTG	TAC	GTG	ACC	ATC	CTG	CTC	ACA	GTA	CTG	GTC	TTC	675
226	L	L	C	G	L	P	F	G	I	Q	F	F	L	F	L	240
676	CTC	CTC	TGT	GGC	CTG	CCC	TTT	GGC	ATT	CAG	TTT	TTC	CTA	TTT	TTA	720
241	W	I	H	V	D	R	E	V	L	F	C	H	V	H	L	255
721	TGG	ATC	CAC	GTG	GAC	AGG	GAA	GTC	TTA	TTT	TGT	CAT	GTT	CAT	CTA	765
256	V	S	I	F	L	S	A	L	N	S	S	A	N	P	I	270
766	GTT	TCT	ATT	TTC	CTG	TCC	GCT	CTT	AAC	AGC	AGT	GCC	AAC	CCC	ATC	810
271	I	Y	F	F	V	G	S	F	R	Q	R	Q	N	R	Q	285

Figure 3 (cont.)

811	ATT	TAC	TTC	TTC	GTG	GGC	TCC	TTT	AGG	CAG	CGT	CAA	AAT	AGG	CAG	855
286	N	L	K	L	V	L	Q	R	A	L	Q	D	A	S	E	300
856	AAC	CTG	AAG	CTG	GTT	CTC	CAG	AGG	GCT	CTG	CAG	GAC	GCG	TCT	GAG	900
301	V	D	E	G	G	Q	L	P	E	E	I	L	E	L	315	
901	GTG	GAT	GAA	GGT	GGA	GGG	CAG	CTT	CCT	GAG	GAA	ATC	CTG	GAG	CTG	945
316	S	G	S	R	L	E	Q	*							323	
946	TCG	GGA	AGC	AGA	TTG	GAG	CAG	TGA							969	

Figure 4.

1	M	L	S	I	L	L	P	S	R	G	S	R	S	G	S	R	R	G	A	L	20
1	ATGCTGTCCATTGCTTCCTTCCAGGGGAAGCAGAAGCGGGAGCCGTGAGCTCTG	60																			
21	L	L	E	G	A	S	R	D	M	E	K	V	D	M	N	T	S	Q	E	Q	40
61	CTCCTGGAGGGAGCCTCCGGGACATGGAGAAGGTGGACATGAATACTACACAGGAACAA	120																			
41	G	L	C	Q	F	S	E	K	Y	K	Q	V	Y	L	S	L	A	Y	S	I	60
121	GGTCTCTGCCAGTTCTCAGAGAAGTACAAGCAAGTCTACCTCTCCCTGGCCTACAGTATC	180																			
61	I	F	I	L	G	L	P	L	N	G	T	V	L	W	H	S	W	G	Q	T	80
181	ATCTTATCCTAGGGCTGCCACTAAATGGCACTGTCTGTGGCACTCCTGGGCCAAACC	240																			
81	K	R	W	S	C	A	T	T	Y	L	V	N	L	M	V	A	D	L	L	Y	100
241	AAGCGCTGGAGCTGTGCCACCACCTATCTGGTGAACCTGATGGTGGCCGACCTGCTTTAT	300																			
101	V	L	L	P	F	L	I	I	T	Y	S	L	D	D	R	W	P	F	G	E	120
301	GTGCTATTGCCCTTCCTCATCACCTACTCACTAGATGACAGGTGGCCCTCGGGAG	360																			
121	L	L	C	K	L	V	H	F	L	F	Y	I	N	L	Y	G	S	I	L	L	140
361	CTGCTCTGCAAGCTGGTGCACCTCCTGTTCTATCACACCTTACGGCAGCATCCTGCTG	420																			
141	L	T	C	I	S	V	H	Q	F	L	G	V	C	H	P	L	C	S	L	P	160
421	CTGACCTGCATCTGTGCACCACTTCCTAGGTGTGCCACCCACTGTGTTCGCTGCC	480																			
161	Y	R	T	R	R	H	A	W	L	G	T	S	T	T	W	A	L	V	V	L	180
481	TACCGGACCCGCAGGCATGCCTGGCTGGCACCAAGCACCACCTGGCCCTGGTGGTCCTC	540																			
181	Q	L	L	P	T	L	A	F	S	H	T	D	Y	I	N	G	Q	M	I	W	200
541	CAGCTGCTGCCACACTGGCCTCTCCCACACGGACTACATCAATGCCAGATGATCTGG	600																			
201	Y	D	M	T	S	Q	E	N	F	D	R	L	F	A	Y	G	I	V	L	T	220
601	TATGACATGACCAGCCAAGAGAATTTGATGGCTTTGCCTACGGCATAGTTCTGACA	660																			
221	L	S	G	F	F	P	S	L	V	I	L	V	C	Y	S	L	M	V	R	S	240
661	TTGTCTGGCTTTCCCTCCTGGTCATTTGGTGTGCTATTCACTGATGGTCAGGAGC	720																			
241	L	I	K	P	E	E	N	L	M	R	T	G	N	T	A	R	A	R	S	I	260
721	CTGATCAAGCCAGAGGAGAACCTCATGAGGACAGGCAACACAGCCGAGCCAGGTCCATC	780																			
261	R	T	I	L	L	V	C	G	L	F	T	L	C	F	V	P	F	H	I	T	280
781	CGGACCATCCTACTGGTGTGGCCTCTCACCCCTGTGTTGTGCCCTCCATATCACT	840																			
281	R	S	F	Y	L	T	I	C	F	L	L	S	Q	D	C	Q	L	L	M	A	300
841	CGCTCCTCTACCTACCATCTGCTTCTGCTTCTCAGGACTGCCAGCTTGTGAGCTGGCA	900																			
301	A	S	V	A	Y	K	I	W	R	P	L	V	S	V	S	S	C	L	N	P	320
901	GCCAGTGTGGCCTACAAGATATGGAGGCCTGGTGAGTGTGAGCAGCTGCCCAACCCA	960																			
321	V	L	Y	F	L	S	R	G	A	K	I	E	S	G	S	S	R	N	*	320	
961	GTCCTGTACTTCAAGGGGGCAAAATAGAGTCAGGCTCCTCCAGAAACTGA	960																			

Figure 5.

1	M	N	Q	T	L	N	S	S	G	T	V	E	S	A	L	15
1	ATG	AAC	CAG	ACT	TTG	AAT	AGC	AGT	GGG	ACC	GTG	GAG	TCA	GCC	CTA	45
16	N	Y	S	R	G	S	T	V	H	T	A	Y	L	V	L	30
46	AAC	TAT	TCC	AGA	GGG	AGC	ACA	GTG	CAC	ACG	GCC	TAC	CTG	GTG	CTG	90
31	S	S	L	A	M	F	T	C	L	C	G	M	A	G	N	45
91	AGC	TCC	CTG	GCC	ATG	TTC	ACC	TGC	CTG	TGC	GGG	ATG	GCA	GGC	AAC	135
46	S	M	V	I	W	L	L	G	F	R	M	H	R	N	P	60
136	AGC	ATG	GTG	ATC	TGG	CTG	CTG	GGC	TTT	CGA	ATG	CAC	AGG	AAC	CCC	180
61	F	C	I	Y	I	L	N	L	A	A	A	D	L	L	F	75
181	TTC	TGC	ATC	TAT	ATC	CTC	AAC	CTG	GCG	GCA	GCC	GAC	CTC	CTC	TTC	225
76	L	F	S	M	A	S	T	L	S	L	E	T	Q	P	L	90
226	CTC	TTC	AGC	ATG	GCT	TCC	ACG	CTC	AGC	CTG	GAA	ACC	CAG	CCC	CTG	270
91	V	N	T	T	D	K	V	H	E	L	M	K	R	L	M	105
271	GTC	AAT	ACC	ACT	GAC	AAG	GTC	CAC	GAG	CTG	ATG	AAG	AGA	CTG	ATG	315
106	Y	F	A	Y	T	V	G	L	S	L	L	T	A	I	S	120
316	TAC	TTT	GCC	TAC	ACA	GTG	GGC	CTG	AGC	CTG	ACG	GCC	ATC	AGC		360
121	T	Q	R	C	L	S	V	L	F	P	I	W	F	K	C	135
361	ACC	CAG	CGC	TGT	CTC	TCT	GTC	CTC	TTC	CCT	ATC	TGG	TTC	AAG	TGT	405
136	H	R	P	R	H	L	S	A	W	V	C	G	L	L	W	150
406	CAC	CGG	CCC	AGG	CAC	CTG	TCA	GCC	TGG	GTG	TGT	GGC	CTG	CTG	TGG	450
151	T	L	C	L	L	M	N	G	L	T	S	S	F	C	S	165
451	ACA	CTC	TGT	CTC	CTG	ATG	AAC	GGG	TTG	ACC	TCT	TCC	TTC	TGC	AGC	495
166	K	F	L	K	F	N	E	D	R	C	F	R	V	D	M	180
496	AAG	TTC	TTG	AAA	TTC	AAT	GAA	GAT	CGG	TGC	TTC	AGG	GTG	GAC	ATG	540
181	V	Q	A	A	L	I	M	G	V	L	T	P	V	M	T	195
541	GTC	CAG	GCC	GCC	CTC	ATC	ATG	GGG	GTC	TTA	ACC	CCA	GTG	ATG	ACT	585
196	L	S	S	L	T	L	F	V	W	V	R	R	S	S	Q	210
586	CTG	TCC	AGC	CTG	ACC	CTC	TTT	GTC	TGG	GTG	CGG	AGG	AGC	TCC	CAG	630
211	Q	W	R	R	Q	P	T	R	L	F	V	V	V	L	A	225
631	CAG	TGG	CGG	CGG	CAG	CCC	ACA	CGG	CTG	TTC	GTG	GTG	GTC	CTG	GCC	675
226	S	V	L	V	F	L	I	C	S	L	P	L	S	I	Y	240
676	TCT	GTC	CTG	GTG	TTC	CTC	ATC	TGT	TCC	CTG	CCT	CTG	AGC	ATC	TAC	720
241	W	F	V	L	Y	W	L	S	L	P	P	E	M	Q	V	255
721	TGG	TTT	GTG	CTC	TAC	TGG	TTG	AGC	CTG	CCG	CCC	GAG	ATG	CAG	GTC	765
256	L	C	F	S	L	S	R	L	S	S	S	V	S	S	S	270
766	CTG	TGC	TTC	AGC	TTG	TCA	CGC	CTC	TCC	TCG	TCC	GTA	AGC	AGC	AGC	810
271	A	N	P	V	I	Y	F	L	V	G	S	R	R	S	H	285

Figure 5 (cont.)

811	GCC	AAC	CCC	GTC	ATC	TAC	TTC	CTG	GTG	GGC	AGC	CGG	AGG	AGC	CAC	855
286	R	L	P	T	R	S	L	G	T	V	L	Q	Q	A	L	300
856	AGG	CTG	CCC	ACC	AGG	TCC	CTG	GGG	ACT	GTG	CTC	CAA	CAG	GCG	CTT	900
301	R	E	E	P	E	L	E	G	G	E	T	P	T	V	G	315
901	CGC	GAG	GAG	CCC	GAG	CTG	GAA	GGT	GGG	GAG	ACG	CCC	ACC	GTG	GGC	945
316	T	N	E	M	G	A	*									322
946	ACC	AAT	GAG	ATG	GGG	GCT	TGA									966

Figure 6.

1	M	E	A	D	L	G	A	T	G	H	R	P	R	T	E	15
1	ATG	GAA	GCT	GAC	CTG	GGT	GCC	ACT	GGC	CAC	AGG	CCC	CGC	ACA	GAG	45
16	L	D	D	E	D	S	Y	P	Q	G	G	W	D	T	V	30
46	CTT	GAT	GAT	GAG	GAC	TCC	TAC	CCC	CAA	GGT	GGC	TGG	GAC	ACG	GTC	90
31	F	L	V	A	L	L	L	L	G	L	P	A	N	G	L	45
91	TTC	CTG	GTG	GCC	CTG	CTG	CTC	CTT	GGG	CTG	CCA	GCC	AAT	GGG	TTG	135
46	M	A	W	L	A	G	S	Q	A	R	H	G	A	G	T	60
136	ATG	GCG	TGG	CTG	GCC	GGC	TCC	CAG	GCC	CGG	CAT	GGA	GCT	GGC	ACG	180
61	R	L	A	L	L	L	L	S	L	A	L	S	D	F	L	75
181	CGT	CTG	GCG	CTG	CTC	CTG	CTC	AGC	CTG	GCC	CTC	TCT	GAC	TTC	TTG	225
76	F	L	A	A	A	A	F	Q	I	L	E	I	R	H	G	90
226	TTC	CTG	GCA	GCA	GCG	GCC	TTC	CAG	ATC	CTA	GAG	ATC	CGG	CAT	GGG	270
91	G	H	W	P	L	G	T	A	A	C	R	F	Y	Y	F	105
271	GGA	CAC	TGG	CCG	CTG	GGG	ACA	GCT	GCC	TGC	CGC	TTC	TAC	TAC	TTC	315
106	L	W	G	V	S	Y	S	S	G	L	F	L	L	A	A	120
316	CTA	TGG	GGC	GTG	TCC	TAC	TCC	TCC	GGC	CTC	TTC	CTG	CTG	GCC	GCC	360
121	L	S	L	D	R	C	L	L	A	L	C	P	H	W	Y	135
361	CTC	AGC	CTC	GAC	CGC	TGC	CTG	CTG	GCG	CTG	TGC	CCA	CAC	TGG	TAC	405
136	P	G	H	R	P	V	R	L	P	L	W	V	C	A	G	150
406	CCT	GGG	CAC	CGC	CCA	GTC	CGC	CTG	CCC	CTC	TGG	GTC	TGC	GCC	GGT	450
151	V	W	V	L	A	T	L	F	S	V	P	W	L	V	F	165
451	GTC	TGG	GTG	CTG	GCC	ACA	CTC	TTC	AGC	GTG	CCC	TGG	CTG	GTC	TTC	495
166	P	E	A	A	V	W	W	Y	D	L	V	I	C	L	D	180
496	CCC	GAG	GCT	GCC	GTC	TGG	TGG	TAC	GAC	CTG	GTC	ATC	TGC	CTG	GAC	540
181	F	W	D	S	E	E	L	S	L	R	M	L	E	V	L	195
541	TTC	TGG	GAC	AGC	GAG	GAG	CTG	TCG	CTG	AGG	ATG	CTG	GAG	GTC	CTG	585
196	G	G	F	L	P	F	L	L	L	L	V	C	H	V	L	210
586	GGG	GGC	TTC	CTG	CCT	TTC	CTC	CTG	CTG	CTC	GTC	TGC	CAC	GTG	CTC	630
211	T	Q	A	T	A	C	R	T	C	H	R	Q	Q	Q	P	225
631	ACC	CAG	GCC	ACA	GCC	TGT	CGC	ACC	TGC	CAC	CGC	CAA	CAG	CAG	CCC	675
226	A	A	C	R	G	F	A	R	V	A	R	T	I	L	S	240
676	GCA	GCC	TGC	CGG	GGC	TTC	GCC	CGT	GTG	GCC	AGG	ACC	ATT	CTG	TCA	720
241	A	Y	V	V	L	R	L	P	Y	Q	L	A	Q	L	L	255
721	GCC	TAT	GTG	GTC	CTG	AGG	CTG	CCC	TAC	CAG	CTG	GCC	CAG	CTG	CTC	765
256	Y	L	A	F	L	W	D	V	Y	S	G	Y	L	L	W	270
766	TAC	CTG	GCC	TTC	CTG	TGG	GAC	GTC	TAC	TCT	GGC	TAC	CTG	CTC	TGG	810
271	E	A	L	V	Y	S	D	Y	L	I	L	L	N	S	C	285

Figure 6 (cont.).

Figure 7.

1	M	N	E	P	L	D	Y	L	A	N	A	S	D	F	P	15
1	ATG	AAT	GAG	CCA	CTA	GAC	TAT	TTA	GCA	AAT	GCT	TCT	GAT	TTC	CCC	45
16	D	Y	A	A	A	F	G	N	C	T	D	E	N	I	P	30
46	GAT	TAT	GCA	GCT	GCT	TTT	GGA	AAT	TGC	ACT	GAT	GAA	AAC	ATC	CCA	90
31	L	K	M	H	Y	L	P	V	I	Y	G	I	I	F	L	45
91	CTC	AAG	ATG	CAC	TAC	CTC	CCT	GTT	ATT	TAT	GGC	ATT	ATC	TTC	CTC	135
46	V	G	F	P	G	N	A	V	V	I	S	T	Y	I	F	60
136	GTG	GGA	TTT	CCA	GGC	AAT	GCA	GTA	GTG	ATA	TCC	ACT	TAC	ATT	TTC	180
61	K	M	R	P	W	K	S	S	T	I	I	M	L	N	L	75
181	AAA	ATG	AGA	CCT	TGG	AAG	AGC	AGC	ACC	ATC	ATT	ATG	CTG	AAC	CTG	225
76	A	C	T	D	L	L	Y	L	T	S	L	P	F	L	I	90
226	GCC	TGC	ACA	GAT	CTG	CTG	TAT	CTG	ACC	AGC	CTC	CCC	TTC	CTG	ATT	270
91	H	Y	Y	A	S	G	E	N	W	I	F	G	D	F	M	105
271	CAC	TAC	TAT	GCC	AGT	GGC	GAA	AAC	TGG	ATC	TTT	GGA	GAT	TTC	ATG	315
106	C	K	F	I	R	F	S	F	H	F	N	L	Y	S	S	120
316	TGT	AAG	TTT	ATC	CGC	TTC	AGC	TTC	CAT	TTC	AAC	CTG	TAT	AGC	AGC	360
121	I	L	F	L	T	C	F	S	I	F	R	Y	C	V	I	135
361	ATC	CTC	TTC	CTC	ACC	TGT	TTC	AGC	ATC	TTC	CGC	TAC	TGT	GTG	ATC	405
136	I	H	P	M	S	C	F	S	I	H	K	T	R	C	A	150
406	ATT	CAC	CCA	ATG	AGC	TGC	TTT	TCC	ATT	CAC	AAA	ACT	CGA	TGT	GCA	450
151	V	V	A	C	A	V	V	W	I	I	S	L	V	A	V	165
451	GTT	GTA	GCC	TGT	GCT	GTG	GTG	TGG	ATC	ATT	TCA	CTG	GTA	GCT	GTC	495
166	I	P	M	T	F	L	I	T	S	T	N	R	T	N	R	180
496	ATT	CCG	ATG	ACC	TTC	TTG	ATC	ACA	TCA	ACC	AAC	AGG	ACC	AAC	AGA	540
181	S	A	C	L	D	L	T	S	S	D	E	L	N	T	I	195
541	TCA	GCC	TGT	CTC	GAC	CTC	ACC	AGT	TCG	GAT	GAA	CTC	AAT	ACT	ATT	585
196	K	W	Y	N	L	I	L	T	A	T	T	F	C	L	P	210
586	AAG	TGG	TAC	AAC	CTG	ATT	TTG	ACT	GCA	ACT	ACT	TTC	TGC	CTC	CCC	630
211	L	V	I	V	T	L	C	Y	T	T	I	I	H	T	L	225
631	TTG	GTG	ATA	GTG	ACA	CTT	TGC	TAT	ACC	ACG	ATT	ATC	CAC	ACT	CTG	675
226	T	H	G	L	Q	T	D	S	C	L	K	Q	K	A	R	240
676	ACC	CAT	GGA	CTG	CAA	ACT	GAC	AGC	TGC	CTT	AAG	CAG	AAA	GCA	CGA	720
241	R	L	T	I	L	L	L	A	F	Y	V	C	F	L	255	
721	AGG	CTA	ACC	ATT	CTG	CTA	CTC	CTT	GCA	TTT	TAC	GTA	TGT	TTT	TTA	765
256	P	F	H	I	L	R	V	I	R	I	E	S	R	L	L	270
766	CCC	TTC	CAT	ATC	TTG	AGG	GTC	ATT	CGG	ATC	GAA	TCT	CGC	CTG	CTT	810

271	S	I	S	C	S	I	E	N	Q	I	H	E	A	Y	I	285
811	TCA	ATC	AGT	TGT	TCC	ATT	GAG	AAT	CAG	ATC	CAT	GAA	GCT	TAC	ATC	855
286	V	S	R	P	L	A	A	L	N	T	F	G	N	L	L	300
856	GTT	TCT	AGA	CCA	TTA	GCT	GCT	CTG	AAC	ACC	TTT	GGT	AAC	CTG	TTA	900
301	L	Y	V	V	V	S	D	N	F	Q	Q	A	V	C	S	315
901	CTA	TAT	GTG	GTG	GTC	AGC	GAC	AAC	TTT	CAG	CAG	GCT	GTC	TGC	TCA	945
316	T	V	R	C	K	V	S	G	N	L	E	Q	A	K	K	330
946	ACA	GTG	AGA	TGC	AAA	GTA	AGC	GGG	AAC	CTT	GAG	CAA	GCA	AAG	AAA	990
331	I	S	Y	S	N	N	P	*								338
991	ATT	AGT	TAC	TCA	AAC	AAC	CCT	TGA								1014

Figure 8.

1	M	N	N	N	T	T	C	I	Q	P	S	M	I	S	S	15
1	ATG	AAC	AAC	AAT	ACA	ACA	TGT	ATT	CAA	CCA	TCT	ATG	ATC	TCT	TCC	45
16	M	A	L	P	I	I	Y	I	L	L	C	I	V	G	V	30
46	ATG	GCT	TTA	CCA	ATC	ATT	TAC	ATC	CTC	CTT	TGT	ATT	GTT	GGT	GTT	90
31	F	G	N	T	L	S	Q	W	I	F	L	T	K	I	G	45
91	TTT	GGA	AAC	ACT	CTC	TCT	CAA	TGG	ATA	TTT	TTA	ACA	AAA	ATA	GGT	135
46	K	K	T	S	T	H	I	Y	L	S	H	L	V	T	A	60
136	AAA	AAA	ACA	TCA	ACG	CAC	ATC	TAC	CTG	TCA	CAC	CTT	GTG	ACT	GCA	180
61	N	L	L	V	C	S	A	M	P	F	M	S	I	Y	F	75
181	AAC	TTA	CTT	GTG	TGC	AGT	GCC	ATG	CCT	TTC	ATG	AGT	ATC	TAT	TTC	225
76	L	K	G	F	Q	W	E	Y	Q	S	A	Q	C	R	V	90
226	CTG	AAA	GGT	TTC	CAA	TGG	GAA	TAT	CAA	TCT	GCT	CAA	TGC	AGA	GTG	270
91	V	N	F	L	G	T	L	S	M	H	A	S	M	F	V	105
271	GTC	AAT	TTT	CTG	GGA	ACT	CTA	TCC	ATG	CAT	GCA	AGT	ATG	TTT	GTC	315
106	S	L	L	I	L	S	W	I	A	I	S	R	Y	A	T	120
316	AGT	CTC	TTA	ATT	TTA	AGT	TGG	ATT	GCC	ATA	AGC	CGC	TAT	GCT	ACC	360
121	L	M	Q	K	D	S	S	Q	E	T	T	S	C	Y	E	135
361	TTA	ATG	CAA	AAG	GAT	TCC	TCG	CAA	GAG	ACT	ACT	TCA	TGC	TAT	GAG	405
136	K	I	F	Y	G	H	L	L	K	K	F	R	Q	P	N	150
406	AAA	ATA	TTT	TAT	GGC	CAT	TTA	CTG	AAA	AAA	TTT	CGC	CAG	CCC	AAC	450
151	F	A	R	K	L	C	I	Y	I	W	G	V	V	L	G	165
451	TTT	GCT	AGA	AAA	CTA	TGC	ATT	TAC	ATA	TGG	GGA	GTT	GTA	CTG	GGC	495
166	I	I	I	P	V	T	V	Y	Y	S	V	I	E	A	T	180
496	ATA	ATC	ATT	CCA	GTT	ACC	GTA	TAC	TAC	TCA	GTC	ATA	GAG	GCT	ACA	540
181	E	G	E	E	S	L	C	Y	N	R	Q	M	E	L	G	195
541	GAA	GGA	GAA	GAG	AGC	CTA	TGC	TAC	AAT	CGG	CAG	ATG	GAA	CTA	GGA	585
196	A	M	I	S	Q	I	A	G	L	I	G	T	T	F	I	210
586	GCC	ATG	ATC	TCT	CAG	ATT	GCA	GGT	CTC	ATT	GGA	ACC	ACA	TTT	ATT	630
211	G	F	S	F	L	V	V	L	T	S	Y	Y	S	F	V	225
631	GGA	TTT	TCC	TTT	TTA	GTA	GTA	CTA	ACA	TCA	TAC	TAC	TCT	TTT	GTA	675
226	S	H	L	R	K	I	R	T	C	T	S	I	M	E	K	240
676	AGC	CAT	CTG	AGA	AAA	ATA	AGA	ACC	TGT	ACG	TCC	ATT	ATG	GAG	AAA	720
241	D	L	T	Y	S	S	V	K	R	H	L	L	V	I	Q	255
721	GAT	TTG	ACT	TAC	AGT	TCT	GTG	AAA	AGA	CAT	CTT	TTG	GTC	ATC	CAG	765
256	I	L	L	I	V	C	F	L	P	Y	S	I	F	K	P	270
766	ATT	CTA	CTA	ATA	GTT	TGC	TTC	CTT	CCT	TAT	AGT	ATT	TTT	AAA	CCC	810
271	I	F	Y	V	L	H	Q	R	D	N	C	Q	Q	L	N	285

Figure 8 (cont.).

Figure 9.

1	M	Y	N	G	S	C	C	R	I	E	G	D	T	I	S	15
1	ATG	TAC	AAC	GGG	TCG	TGC	TGC	CGC	ATC	GAG	GGG	GAC	ACC	ATC	TCC	45
16	Q	V	M	P	P	L	L	I	V	A	F	V	L	G	A	30
46	CAG	GTG	ATG	CCG	CCG	CTG	CTC	ATT	GTG	GCC	TTT	GTG	CTG	GGC	GCA	90
31	L	G	N	G	V	A	L	C	G	F	C	F	H	M	K	45
91	CTA	GGC	AAT	GGG	GTC	GCC	CTG	TGT	GGT	TTC	TGC	TTC	CAC	ATG	AAG	135
46	T	W	K	P	S	T	V	Y	L	F	N	L	A	V	A	60
136	ACC	TGG	AAG	CCC	AGC	ACT	GTT	TAC	CTT	TTC	AAT	TTG	GCC	GTG	GCT	180
61	D	F	L	L	M	I	C	L	P	F	R	T	D	Y	Y	75
181	GAT	TTC	CTC	CTT	ATG	ATC	TGC	CTG	CCT	TTT	CGG	ACA	GAC	TAT	TAC	225
76	L	R	R	R	H	W	A	F	G	D	I	P	C	R	V	90
226	CTC	AGA	CGT	AGA	CAC	TGG	GCT	TTT	GGG	GAC	ATT	CCC	TGC	CGA	GTG	270
91	G	L	F	T	L	A	M	N	R	A	G	S	I	V	F	105
271	GGG	CTC	TTC	ACG	TTG	GCC	ATG	AAC	AGG	GCC	GGG	AGC	ATC	GTG	TTC	315
106	L	T	V	V	A	A	D	R	Y	F	K	V	V	H	P	120
316	CTT	ACG	GTG	GTG	GCT	GCG	GAC	AGG	TAT	TTC	AAA	GTG	GTC	CAC	CCC	360
121	H	H	A	V	N	T	I	S	T	R	V	A	A	G	I	135
361	CAC	CAC	GCG	GTG	AAC	ACT	ATC	TCC	ACC	CGG	GTG	GCG	GCT	GGC	ATC	405
136	V	C	T	L	W	A	L	V	I	L	G	T	V	Y	L	150
406	GTC	TGC	ACC	CTG	TGG	GCC	CTG	GTC	ATC	CTG	GGA	ACA	GTG	TAT	CTT	450
151	L	L	E	N	H	L	C	V	Q	E	T	A	V	S	C	165
451	TTG	CTG	GAG	AAC	CAT	CTC	TGC	GTG	CAA	GAG	ACG	GCC	GTC	TCC	TGT	495
166	E	S	F	I	M	E	S	A	N	G	W	H	D	I	M	180
496	GAG	AGC	TTC	ATC	ATG	GAG	TCG	GCC	AAT	GGC	TGG	CAT	GAC	ATC	ATG	540
181	F	Q	L	E	F	F	M	P	L	G	I	I	L	F	C	195
541	TTC	CAG	CTG	GAG	TTC	TTT	ATG	CCC	CTC	GGC	ATC	ATC	TTA	TTT	TGC	585
196	S	F	K	I	V	W	S	L	R	R	R	Q	Q	L	A	210
586	TCC	TTC	AAG	ATT	GTT	TGG	AGC	CTG	AGG	CGG	AGG	CAG	CAG	CTG	GCC	630
211	R	Q	A	R	M	K	K	A	T	R	F	I	M	V	V	225
631	AGA	CAG	GCT	CGG	ATG	AAG	AAG	GCG	ACC	CGG	TTC	ATC	ATG	GTG	GTG	675
226	A	I	V	F	I	T	C	Y	L	P	S	V	S	A	R	240
676	GCA	ATT	GTG	TTC	ATC	ACA	TGC	TAC	CTG	CCC	AGC	GTG	TCT	GCT	AGA	720
241	L	Y	F	L	W	T	V	P	S	S	A	C	D	P	S	255
721	CTC	TAT	TTC	CTC	TGG	ACG	GTG	CCC	TCG	AGT	GCC	TGC	GAT	CCC	TCT	765
256	V	H	G	A	L	H	I	T	L	S	F	T	Y	M	N	270
766	GTC	CAT	GGG	GCC	CTG	CAC	ATA	ACC	CTC	AGC	TTC	ACC	TAC	ATG	AAC	810
271	S	M	L	D	P	L	V	Y	Y	F	S	S	P	S	F	285

Figure 9 (cont.)

811	AGC	ATG	CTG	GAT	CCC	CTG	GTG	TAT	TAT	TTT	TCA	AGC	CCC	TCC	TTT	855
286	P	K	F	Y	N	K	L	K	I	C	S	L	K	P	K	300
856	CCC	AAA	TTC	TAC	AAC	AAG	CTC	AAA	ATC	TGC	AGT	CTG	AAA	CCC	AAG	900
301	Q	P	G	H	S	K	T	Q	R	P	E	E	M	P	I	315
901	CAG	CCA	GGA	CAC	TCA	AAA	ACA	CAA	AGG	CCG	GAA	GAG	ATG	CCA	ATT	945
316	S	N	L	G	R	R	S	C	I	S	V	A	N	S	F	330
946	TCG	AAC	CTC	GGT	CGC	AGG	AGT	TGC	ATC	AGT	GTG	GCA	AAT	AGT	TTC	990
331	Q	S	Q	S	D	G	Q	W	D	P	H	I	V	E	W	345
991	CAA	AGC	CAG	TCT	GAT	GGG	CAA	TGG	GAT	CCC	CAC	ATT	GTT	GAG	TGG	1035
346	H	*														347
1036	CAC	TGA														1041

Figure 10.

1	M	G	P	G	E	A	L	L	A	G	L	L	V	M	V	15
1	ATG	GGC	CCC	GGC	GAG	GCG	CTG	CTG	GCG	GGT	CTC	CTG	GTG	ATG	GTA	45
16	L	A	V	A	L	L	S	N	A	L	V	L	L	C	C	30
46	CTG	GCC	GTG	GCG	CTG	CTA	TCC	AAC	GCA	CTG	GTG	CTG	CTT	TGT	TGC	90
31	A	Y	S	A	E	L	R	T	R	A	S	G	V	L	L	45
91	GCC	TAC	AGC	GCT	GAG	CTC	CGC	ACT	CGA	GCC	TCA	GGC	GTC	CTC	CTG	135
46	V	N	L	S	L	G	H	L	L	L	A	A	L	D	M	60
136	GTG	AAT	CTG	TCT	CTG	GGC	CAC	CTG	CTG	CTG	GCG	GCG	CTG	GAC	ATG	180
61	P	F	T	L	L	G	V	M	R	G	R	T	P	S	A	75
181	CCC	TTC	ACG	CTG	CTC	GGT	GTG	ATG	CGC	GGG	CGG	ACA	CCG	TCG	GCG	225
76	P	G	A	C	Q	V	I	G	F	L	D	T	F	L	A	90
226	CCC	GGC	GCA	TGC	CAA	GTC	ATT	GGC	TTC	CTG	GAC	ACC	TTC	CTG	GCG	270
91	S	N	A	A	L	S	V	A	A	L	S	A	D	Q	W	105
271	TCC	AAC	GCG	GCG	CTG	AGC	GTG	GCG	GCG	CTG	AGC	GCA	GAC	CAG	TGG	315
106	L	A	V	G	F	P	L	R	Y	A	G	R	L	R	P	120
316	CTG	GCA	GTG	GGC	TTC	CCA	CTG	CGC	TAC	GCC	GGA	CGC	CTG	CGA	CCG	360
121	R	Y	A	G	L	L	L	G	C	A	W	G	Q	S	L	135
361	CGC	TAT	GCC	GGC	CTG	CTG	GGC	TGT	GCC	TGG	GGA	CAG	TCG	CTG	CTG	405
136	A	F	S	G	A	A	L	G	C	S	W	L	G	Y	S	150
406	GCC	TTC	TCA	GGC	GCT	GCA	CTT	GGC	TGC	TCG	TGG	CTT	GGC	TAC	AGC	450
151	S	A	F	A	S	C	S	L	R	L	P	P	E	P	E	165
451	AGC	GCC	TTC	GCG	TCC	TGT	TCG	CTG	CGC	CTG	CCG	CCC	GAG	CCT	GAG	495
166	R	P	R	F	A	A	F	T	A	T	L	H	A	V	G	180
496	CGT	CCG	CGC	TTC	GCA	GCC	TTC	ACC	GCC	ACG	CTC	CAT	GCC	GTG	GGC	540
181	F	V	L	P	L	A	V	L	C	L	T	S	L	Q	V	195
541	TTC	GTG	CTG	CCG	CTG	GCG	GTG	CTC	TGC	CTC	ACC	TCG	CTC	CAG	GTG	585
196	H	R	V	A	R	R	H	C	Q	R	M	D	T	V	T	210
586	CAC	CGG	GTG	GCA	CGC	AGA	CAC	TGC	CAG	CGC	ATG	GAC	ACC	GTC	ACC	630
211	M	K	A	L	A	L	L	A	D	L	H	P	R	Y	W	225
631	ATG	AAG	GCG	CTC	GGC	CTG	CTC	GCC	GAC	CTG	CAC	CCC	AGG	TAT	TGG	675
226	P	S	A	C	R	Q	A	Q	A	R	D	L	G	A	P	240
676	CCC	AGT	GCA	TGC	CGA	CAG	GCC	CAG	GCC	AGG	GAC	TTG	GGC	GCT	CCC	720
241	W	A	V	G	L	R	S	L	W	A	S	P	P	L	L	255
721	TGG	GCA	GTT	GGC	TTG	AGG	AGC	CTG	TGG	GCA	TCA	CCA	CCG	TTA	CTC	765
256	C	P	E	F	T	S	H	S	T	A	P	A	R	C	S	270
766	TGC	CCA	GAG	TTC	ACC	AGC	CAC	AGC	ACT	GCC	CCT	GCA	CGC	TGC	TCA	810
271	Q	G	F	P	V	G	S	L	V	Q	T	L	R	G	P	285

Figure 11.

1	M	T	P	N	S	T	G	E	V	P	S	P	I	P	K	15
1	ATG	ACG	CCC	AAC	AGC	ACT	GGC	GAG	GTG	CCC	AGC	CCC	ATT	CCC	AAG	45
16	G	A	L	G	L	S	L	A	L	A	S	L	I	I	T	30
46	GGG	GCT	TTG	GGG	CTC	TCC	CTG	GCC	CTG	GCA	AGC	CTC	ATC	ATC	ACC	90
31	A	N	L	L	L	A	L	G	I	A	G	T	A	A	C	45
91	GCG	AAC	CTG	CTC	CTA	GCC	CTG	GGC	ATC	GCT	GGG	ACC	GCC	GCC	TGC	135
46	A	A	T	C	W	L	L	L	P	E	P	T	A	G	W	60
136	GCA	GCC	ACC	TGC	TGG	CTG	CTT	CTT	CCT	GAG	CCT	ACT	GCT	GGC	TGG	180
61	A	A	H	G	S	G	I	A	T	L	P	G	L	W	N	75
181	GCT	GCT	CAC	GGG	TCT	GGC	ATT	GCC	ACA	TTG	CCA	GGG	CTG	TGG	AAC	225
76	Q	S	R	R	G	Y	W	S	C	L	L	V	Y	L	A	90
226	CAG	AGT	CGC	CGG	GGT	TAC	TGG	TCC	TGC	CTC	CTC	GTC	TAC	TTG	GCT	270
91	P	N	F	S	F	L	S	L	L	A	N	L	L	L	V	105
271	CCC	AAC	TTC	TCC	TTC	CTC	TCC	CTG	CTT	GCC	AAC	CTC	TTG	CTG	GTG	315
106	H	G	E	R	Y	M	A	V	L	R	P	L	Q	P	P	120
316	CAC	GGG	GAG	CGC	TAC	ATG	GCA	GTC	CTG	AGG	CCA	CTC	CAG	CCC	CCT	360
121	G	S	I	R	L	A	L	L	T	W	A	G	P	L	135	
361	GGG	AGC	ATT	CGG	CTG	GCC	CTG	CTC	CTC	ACC	TGG	GCT	GGT	CCC	CTG	405
136	L	F	A	S	L	P	A	L	G	W	N	H	W	T	P	150
406	CTC	TTT	GCC	AGT	CTG	CCC	GCT	CTG	GGG	TGG	AAC	CAC	TGG	ACC	CCT	450
151	G	A	N	C	S	S	Q	A	I	F	P	A	P	Y	L	165
451	GGT	GCC	AAC	TGC	AGC	TCC	CAG	GCT	ATC	TTC	CCA	GCC	CCC	TAC	CTG	495
166	Y	L	E	V	Y	G	L	L	P	A	V	G	A	A	180	
496	TAC	CTC	GAA	GTC	TAT	GGG	CTC	CTG	CTG	CCC	GCC	GTG	GGT	GCT	GCT	540
181	A	F	L	S	V	R	V	L	A	T	A	H	R	Q	L	195
541	GCC	TTC	CTC	TCT	GTC	CGC	GTG	CTG	GCC	ACT	GCC	CAC	CGC	CAG	CTG	585
196	Q	D	I	C	R	L	E	R	A	V	C	R	D	E	P	210
586	CAG	GAC	ATC	TGC	CGG	CTG	GAG	CGG	GCA	GTG	TGC	CGC	GAT	GAG	CCC	630
211	S	A	L	A	R	A	L	T	W	R	Q	A	R	A	Q	225
631	TCC	GCC	CTG	GCC	CGG	GCC	CTT	ACC	TGG	AGG	CAG	GCA	AGG	GCA	CAG	675
226	A	G	A	M	L	L	F	G	L	C	W	G	P	Y	V	240
676	GCT	GGA	GCC	ATG	CTG	CTC	TTC	GGG	CTG	TGC	TGG	GGG	CCC	TAC	GTG	720
241	A	T	L	L	S	V	L	A	Y	E	Q	R	P	P	255	
721	GCC	ACA	CTG	CTC	TCA	GTC	CTG	GCC	TAT	GAG	CAG	CGC	CCG	CCA	765	
256	L	G	P	G	T	L	L	S	L	L	S	L	G	S	A	270
766	CTG	GGG	CCT	GGG	ACA	CTG	TTG	TCC	CTC	CTC	TCC	CTA	GGA	AGT	GCC	810
271	S	A	A	A	V	P	V	A	M	G	L	G	D	Q	R	285

Figure 11 (cont.)

811	AGT	GCA	GCG	GCA	GTG	CCC	GTA	GCC	ATG	GGG	CTG	GGC	GAT	CAG	CGC	855
286	Y	T	A	P	W	R	Q	P	P	K	G	A	C	R	G	300
856	TAC	ACA	GCC	CCC	TGG	AGG	CAG	CCG	CCC	AAA	GGT	GCC	TGC	AGG	GGC	900
301	C	G	E	E	P	P	G	T	V	P	A	P	A	L	P	315
901	TGT	GGG	GAA	GAG	CCT	CCC	GGG	ACA	GTC	CCG	GCC	CCA	GCA	TTG	CCT	945
316	T	T	Q	A	A	K	A	V	S	T	W	T	*		327	
946	ACC	ACC	CAA	GCA	GCC	AAA	GCA	GTG	TCG	ACC	TGG	ACT	TGA		984	

Figure 12.

1	M	G	D	E	L	A	P	C	P	V	G	T	T	A	W	15
1	ATG	GGG	GAT	GAG	CTG	GCA	CCT	TGC	CCT	GTG	GGC	ACT	ACA	GCT	TGG	45
16	P	A	L	I	Q	L	I	S	K	T	P	C	M	P	Q	30
46	CCG	GCC	CTG	ATC	CAG	CTC	ATC	AGC	AAG	ACA	CCC	TGC	ATG	CCC	CAA	90
31	A	A	S	N	T	S	L	G	L	G	D	L	R	V	P	45
91	GCA	GCC	AGC	AAC	ACT	TCC	TTG	GGC	CTG	GGG	GAC	CTC	AGG	GTG	CCC	135
46	S	S	M	L	Y	W	L	F	L	P	S	S	L	L	A	60
136	AGC	TCC	ATG	CTG	TAC	TGG	CTT	TTC	CTT	CCC	TCA	AGC	CTG	CTG	GCT	180
61	A	A	T	L	A	V	S	P	L	L	L	V	T	I	L	75
181	GCA	GCC	ACA	CTG	GCT	GTC	AGC	CCC	CTG	CTG	CTG	GTG	ACC	ATC	CTG	225
76	R	N	Q	R	L	R	Q	E	P	H	Y	L	L	P	A	90
226	CGG	AAC	CAA	CGG	CTG	CGA	CAG	GAG	CCC	CAC	TAC	CTG	CTC	CCG	GCT	270
91	N	I	L	L	S	D	L	A	Y	I	L	L	H	M	L	105
271	AAC	ATC	CTG	CTC	TCA	GAC	CTG	GCC	TAC	ATT	CTC	CTC	CAC	ATG	CTC	315
106	I	S	S	S	S	L	G	G	W	E	L	G	R	M	A	120
316	ATC	TCC	TCC	AGC	AGC	CTG	GGT	GGC	TGG	GAG	CTG	GGC	CGC	ATG	GCC	360
121	C	G	I	L	T	D	A	V	F	A	A	C	T	S	T	135
361	TGT	GGC	ATT	CTC	ACT	GAT	GCT	GTC	TTC	GCC	GCC	TGC	ACC	AGC	ACC	405
136	I	L	S	F	T	A	I	V	L	H	T	Y	L	A	V	150
406	ATC	CTG	TCC	TTC	ACC	GCC	ATT	GTG	CTG	CAC	ACC	TAC	CTG	GCA	GTC	450
151	I	H	P	L	R	Y	L	S	F	M	S	H	G	A	A	165
451	ATC	CAT	CCA	CTG	CGC	TAC	CTC	TCC	TTC	ATG	TCC	CAT	GGG	GCT	GCC	495
166	W	K	A	V	A	L	I	W	L	V	A	C	C	F	P	180
496	TGG	AAG	GCA	GTG	GCC	CTC	ATC	TGG	CTG	GTG	GCC	TGC	TGC	TTC	CCC	540
181	T	F	L	I	W	L	S	K	W	Q	D	A	Q	L	E	195
541	ACA	TTC	CTT	ATT	TGG	CTC	AGC	AAG	TGG	CAG	GAT	GCC	CAG	CTG	GAG	585
196	E	Q	G	A	S	Y	I	L	P	P	S	M	G	T	Q	210
586	GAG	CAA	GGA	GCT	TCA	TAC	ATC	CTA	CCA	CCA	AGC	ATG	GGC	ACC	CAG	630
211	P	G	C	G	L	L	V	I	V	T	Y	T	S	I	L	225
631	CCG	GGA	TGT	GGC	CTC	CTG	GTC	ATT	GTT	ACC	TAC	ACC	TCC	ATT	CTG	675
226	C	V	L	F	L	C	T	A	L	I	A	N	C	F	W	240
676	TGC	GTT	CTG	TTC	CTC	TGC	ACA	GCT	CTC	ATT	GCC	AAC	TGT	TTC	TGG	720
241	R	I	Y	A	E	A	K	T	S	G	I	W	G	Q	G	255
721	AGG	ATC	TAT	GCA	GAG	GCC	AAG	ACT	TCA	GGC	ATC	TGG	GGG	CAG	GGC	765
256	Y	S	R	A	R	G	T	L	L	I	H	S	V	L	I	270
766	TAT	TCC	CGG	GCC	AGG	GGC	ACC	CTG	CTG	ATC	CAC	TCA	GTG	CTG	ATC	810
271	T	L	Y	V	S	T	G	V	V	F	S	L	D	M	V	285

Figure 12 (cont.)

811	ACA	TTG	TAC	GTG	AGC	ACA	GGG	GTG	GTG	TTC	TCC	CTG	GAC	ATG	GTG	855
286	L	T	R	Y	H	H	I	D	S	G	T	H	T	W	L	300
856	CTG	ACC	AGG	TAC	CAC	CAC	ATT	GAC	TCT	GGG	ACT	CAC	ACA	TGG	CTC	900
301	L	A	A	N	S	E	V	L	M	M	L	P	R	A	M	315
901	CTG	GCA	GCT	AAC	AGT	GAG	GTA	CTC	ATG	ATG	CTT	CCC	CGT	GCC	ATG	945
316	L	T	Y	L	Y	L	L	R	Y	R	Q	L	L	G	M	330
946	CTC	ACA	TAC	CTG	TAC	CTG	CTC	CGC	TAC	CGG	CAG	CTG	TTG	GGC	ATG	990
331	V	R	G	H	L	P	S	R	R	H	Q	A	I	F	T	345
991	GTC	CGG	GGC	CAC	CTC	CCA	TCC	AGG	AGG	CAC	CAG	GCC	ATC	TTT	ACC	1035
346	I	S	*													347
1036	ATT	TCC	TAG													1044

Figure 13.

1	G	P	H	R	S	Q	R	S	H	L	C	F	R	A	K	15
1	GGC	CCC	CAT	AGG	AGC	CAA	CGA	AGT	CAT	CTT	TGC	TTC	AGA	GCT	AAA	45
16	P	V	F	L	L	S	T	A	N	I	L	T	V	I	I	30
46	CCA	GTT	TTT	CTT	CTC	TCC	ACA	GCA	AAT	ATC	TTG	ACA	GTG	ATC	ATC	90
31	L	S	Q	L	V	A	R	R	Q	K	S	S	Y	N	Y	45
91	CTC	TCC	CAG	CTG	GTG	GCA	AGA	AGA	CAG	AAG	TCC	TCC	TAC	AAC	TAT	135
46	L	L	A	L	A	A	A	D	I	L	V	L	F	F	I	60
136	CTC	TTG	GCA	CTC	GCT	GCT	GCC	GAC	ATC	TTG	GTC	CTC	TTT	TTC	ATA	180
61	V	F	V	D	F	L	L	E	D	F	I	L	N	M	Q	75
181	GTG	TTT	GTG	GAC	TTC	CTG	TTG	GAA	GAT	TTC	ATC	TTG	AAC	ATG	CAG	225
76	M	P	Q	V	P	D	K	I	I	E	V	L	E	F	S	90
226	ATG	CCT	CAG	GTC	CCC	GAC	AAG	ATC	ATA	GAA	GTG	CTG	GAA	TTC	TCA	270
91	S	I	H	T	S	I	W	I	T	V	P	L	T	I	D	105
271	TCC	ATC	CAC	ACC	TCC	ATA	TGG	ATT	ACT	GTA	CCG	TTA	ACC	ATT	GAC	315
106	R	Y	I	A	V	C	H	P	L	K	Y	H	T	V	S	120
316	AGG	TAT	ATC	GCT	GTC	TGC	CAC	CCG	CTC	AAG	TAC	CAC	ACG	GTC	TCA	360
121	Y	P	A	R	T	R	K	V	I	V	S	V	Y	I	T	135
361	TAC	CCA	GCC	CGC	ACC	CGG	AAA	GTC	ATT	GTA	AGT	GTT	TAC	ATC	ACC	405
136	C	F	L	T	S	I	P	Y	Y	W	W	P	N	I	W	150
406	TGC	TTC	CTG	ACC	AGC	ATC	CCC	TAT	TAC	TGG	TGG	CCC	AAC	ATC	TGG	450
151	T	E	D	Y	I	S	T	S	V	H	H	V	L	I	W	165
451	ACT	GAA	GAC	TAC	ATC	AGC	ACC	TCT	GTG	CAT	CAC	GTC	CTC	ATC	TGG	495
166	I	H	C	F	T	V	Y	L	V	P	C	S	I	F	F	180
496	ATC	CAC	TGC	TTC	ACC	GTC	TAC	CTG	GTG	CCC	TGC	TCC	ATC	TTC	TTC	540
181	I	L	N	S	I	I	V	Y	K	L	R	R	K	S	N	195
541	ATC	TTG	AAC	TCA	ATC	ATT	GTG	TAC	AAG	CTC	AGG	AGG	AAG	AGC	AAT	585
196	F	R	L	R	G	Y	S	T	G	K	T	T	A	I	L	210
586	TTT	CGT	CTC	CGT	GGC	TAC	TCC	ACG	GGG	AAG	ACC	ACC	GCC	ATC	TTG	630
211	F	T	I	T	S	I	F	A	T	L	W	A	P	R	I	225
631	TTC	ACC	ATT	ACC	TCC	ATC	TTT	GCC	ACA	CTT	TGG	GCC	CCC	CGC	ATC	675
226	I	M	I	L	Y	H	L	Y	G	A	P	I	Q	N	R	240
676	ATC	ATG	ATT	CTT	TAC	CAC	CTC	TAT	GGG	GCG	CCC	ATC	CAG	AAC	CGC	720
241	W	L	V	H	I	M	S	D	I	A	N	M	L	A	L	255
721	TGG	CTG	GTA	CAC	ATC	ATG	TCC	GAC	ATT	GCC	AAC	ATG	CTA	GCC	CTT	765
256	L	N	T	A	I	N	F	F	L	Y	C	F	I	S	K	270
766	CTG	AAC	ACA	GCC	ATC	AAC	TTC	TTC	CTC	TAC	TGC	TTC	ATC	AGC	AAG	810
271	R	F	R	T	M	A	A	A	T	L	K	A	F	F	K	285

Figure 13 (cont.)

811	CGG	TTC	CGC	ACC	ATG	GCA	GCC	GCC	ACG	CTC	AAG	GCT	TTC	TTC	AAG	855
286	C	Q	K	Q	P	V	Q	F	Y	T	N	H	N	F	S	300
856	TGC	CAG	AAG	CAA	CCT	GTA	CAG	TTC	TAC	ACC	AAT	CAT	AAC	TTT	TCC	900
301	I	T	S	S	P	W	I	S	P	A	N	S	H	C	I	315
901	ATA	ACA	AGT	AGC	CCC	TGG	ATC	TCG	CCG	GCA	AAC	TCA	CAC	TGC	ATC	945
316	K	M	L	V	Y	Q	Y	D	K	N	G	K	P	I	K	330
946	AAG	ATG	CTG	GTG	TAC	CAG	TAT	GAC	AAA	AAT	GGA	AAA	CCT	ATA	AAA	990
331	V	S	P	*												333
991	GTA	TCC	CCG	TGA												1002

Figure 14.

1	M	L	A	A	A	F	A	D	S	N	S	S	S	M	N	15
1	ATG	CTG	GCA	GCT	GCC	TTT	GCA	GAC	TCT	AAC	TCC	AGC	AGC	ATG	AAT	45
16	V	S	F	A	H	L	H	F	A	G	G	Y	L	P	S	30
46	GTG	TCC	TTT	GCT	CAC	CTC	CAC	TTT	GCC	GGA	GGG	TAC	CTG	CCC	TCT	90
31	D	S	Q	D	W	R	T	I	I	P	A	L	L	V	A	45
91	GAT	TCC	CAG	GAC	TGG	AGA	ACC	ATC	ATC	CCG	GCT	CTC	TTG	GTG	GCT	135
46	V	C	L	V	G	F	V	G	N	L	C	V	I	G	I	60
136	GTC	TGC	CTG	GTG	GGC	TTC	GTG	GGA	AAC	CTG	TGT	GTG	ATT	GGC	ATC	180
61	L	L	H	N	A	W	K	G	K	P	S	M	I	H	S	75
181	CTC	CTT	CAC	AAT	GCT	TGG	AAA	GGA	AAG	CCA	TCC	ATG	ATC	CAC	TCC	225
76	L	I	L	N	L	S	L	A	D	L	S	L	L	L	F	90
226	CTG	ATT	CTG	AAT	CTC	AGC	CTG	GCT	GAT	CTC	TCC	CTC	CTG	CTG	TTT	270
91	S	A	P	I	R	A	T	A	Y	S	K	S	V	W	D	105
271	TCT	GCA	CCT	ATC	CGA	GCT	ACG	GCG	TAC	TCC	AAA	AGT	GTT	TGG	GAT	315
106	L	G	W	F	V	C	K	S	S	D	W	F	I	H	T	120
316	CTA	GGC	TGG	TTT	GTC	TGC	AAG	TCC	TCT	GAC	TGG	TTT	ATC	CAC	ACA	360
121	C	M	A	A	K	S	L	T	I	V	V	V	A	K	V	135
361	TGC	ATG	GCA	GCC	AAG	AGC	CTG	ACA	ATC	GTT	GTG	GTG	GCC	AAA	GTA	405
136	C	F	M	Y	A	S	D	P	A	K	Q	V	S	I	H	150
406	TGC	TTC	ATG	TAT	GCA	AGT	GAC	CCA	GCC	AAG	CAA	GTG	AGT	ATC	CAC	450
151	N	Y	T	I	W	S	V	L	V	A	I	W	T	V	A	165
451	AAC	TAC	ACC	ATC	TGG	TCA	GTG	CTG	GTG	GCC	ATC	TGG	ACT	GTG	GCT	495
166	S	L	L	P	L	P	E	W	F	F	S	T	I	R	H	180
496	AGC	CTG	TTA	CCC	CTG	CCG	GAA	TGG	TTC	TTT	AGC	ACC	ATC	AGG	CAT	540
181	H	E	G	V	E	M	C	L	V	D	V	P	A	V	A	195
541	CAT	GAA	GGT	GTG	GAA	ATG	TGC	CTC	GTG	GAT	GTA	CCA	GCT	GTG	GCT	585
196	E	E	F	M	S	M	F	G	K	L	Y	P	L	L	A	210
586	GAA	GAG	TTT	ATG	TCG	ATG	TTT	GGT	AAG	CTC	TAC	CCA	CTC	CTG	GCA	630
211	F	G	L	P	L	F	F	A	S	F	Y	F	W	R	A	225
631	TTT	GGC	CTT	CCA	TTA	TTT	TTT	GCC	AGC	TTT	TAT	TTC	TGG	AGA	GCT	675
226	Y	D	Q	C	K	K	R	G	T	K	T	Q	N	L	R	240
676	TAT	GAC	CAA	TGT	AAA	AAA	CGA	GGA	ACT	AAG	ACT	CAA	AAT	CTT	AGA	720
241	N	Q	I	R	S	K	Q	V	T	V	M	L	L	S	I	255
721	AAC	CAG	ATA	CGC	TCA	AAG	CAA	GTC	ACA	GTG	ATG	CTG	CTG	AGC	ATT	765
256	A	I	I	S	A	L	L	W	L	P	E	W	V	A	W	270
766	GCC	ATC	ATC	TCT	GCT	CTC	TTG	TGG	CTC	CCC	GAA	TGG	GTA	GCT	TGG	810
271	L	W	V	W	H	L	K	A	A	G	P	A	P	P	Q	285

Figure 14 (cont.)

811	CTG	TGG	GTA	TGG	CAT	CTG	AAG	GCT	GCA	GGC	CCG	GCC	CCA	CCA	CAA	855
286	G	F	I	A	L	S	Q	V	L	M	F	S	I	S	S	300
856	GGT	TTC	ATA	GCC	CTG	TCT	CAA	GTC	TTG	ATG	TTT	TCC	ATC	TCT	TCA	900
301	A	N	P	L	I	F	L	V	M	S	E	E	F	R	E	315
901	GCA	AAT	CCT	CTC	ATT	TTT	CTT	GTG	ATG	TCG	GAA	GAG	TTC	AGG	GAA	945
316	G	L	K	G	V	W	K	W	M	I	T	K	K	P	P	330
946	GGC	TTG	AAA	GGT	GTA	TGG	AAA	TGG	ATG	ATA	ACC	AAA	AAA	CCT	CCA	990
331	T	V	S	E	S	Q	E	T	P	A	G	N	S	E	G	345
991	ACT	GTC	TCA	GAG	TCT	CAG	GAA	ACA	CCA	GCT	GGC	AAC	TCA	GAG	GGT	1035
346	L	P	D	K	V	P	S	P	E	S	P	A	S	I	P	360
1036	CTT	CCT	GAC	AAG	GTT	CCA	TCT	CCA	GAA	TCC	CCA	GCA	TCC	ATA	CCA	1080
361	E	K	E	K	P	S	S	P	S	S	G	K	G	K	T	375
1081	GAA	AAA	GAG	AAA	CCC	AGC	TCT	CCC	TCC	TCT	GGC	AAA	GGG	AAA	ACT	1125
376	E	K	A	E	I	P	I	L	P	D	V	E	Q	F	W	390
1126	GAG	AAG	GCA	GAG	ATT	CCC	ATC	CTT	CCT	GAC	GTA	GAG	CAG	TTT	TGG	1170
391	H	E	R	D	T	V	P	S	V	Q	D	N	D	P	I	405
1171	CAT	GAG	AGG	GAC	ACA	GTC	CCT	TCT	GTA	CAG	GAC	AAT	GAC	CCT	ATC	1215
406	P	W	E	H	E	D	Q	E	T	G	E	G	V	K	*	419
1216	CCC	TGG	GAA	CAT	GAA	GAT	CAA	GAG	ACA	GGG	GAA	GGT	GTT	AAA	TAG	1260

Figure 15.

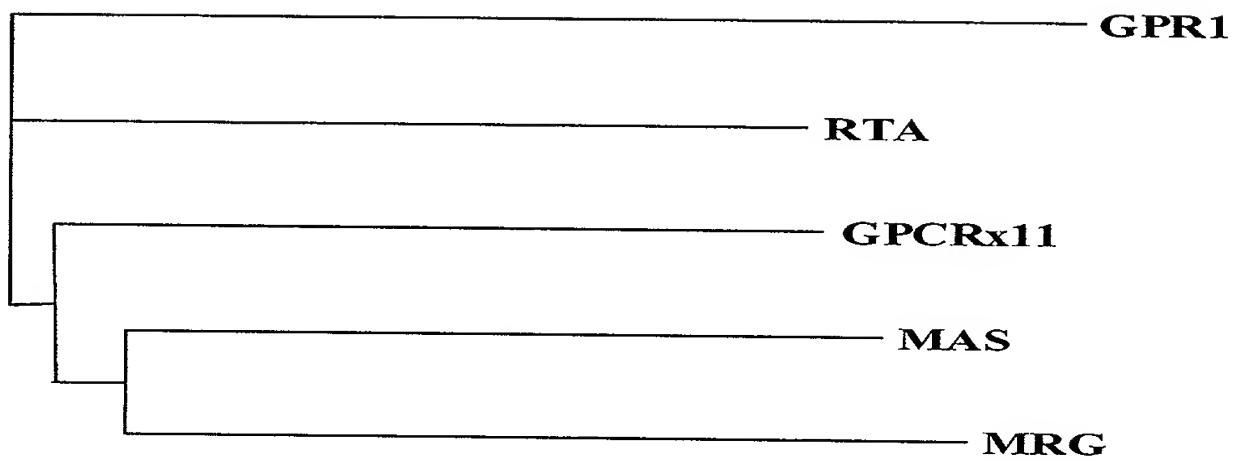


Figure 16.

